Chemistry 129.01	Quiz #2: 25 points
Name:	

Show all your work!

1. (7 pts.) Fill in the gaps in the following table. Each column may represent a <u>neutral atom or an ion</u>.

Symbol	$^{197}_{79}Au^{3+}$		
Protons			28
Neutrons			
Electrons			26
Atomic Number		18	
Mass Number		40	58
Charge		0	

2. (10 pts) A hydrogen atom undergoes an electron transition from **n=5 to n=3**. (a) Does this transition correspond to absorption or emission of energy? (b) Determine the wavelength of light associated with this transition. (c) Identify the region of the electromagnetic spectrum to which it belongs.

3. (7pts) Fill in the gaps in the following table.

Name	Formula
sodium nitrite	
	NH ₄ NO ₃
xenon diflouride	
	Na ₂ CO ₃
HF	
	NO ₂
phosphorus trichloride	
	KCI
cobalt (II) bromide	
	HNO ₃
lithium iodide	
	Fe(OH)₃
carbon dioxide	
	Cr(ClO ₄) ₃

